



DEPARTMENT OF THE NAVY

NORTHERN DIVISION
NAVAL FACILITIES ENGINEERING COMMAND
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NAVSTA NEWPORT RI
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IN REPLY REFER TO

DEC 9 2 1997

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Paul Kulpa
Rhode Island Department of Environmental Management
Division of Site Remediation
21 Promenade Street
Providence, RI, 02908-5767

SUBJECT: RELATIVE RISK RANKING FOR NETC NEWPORT IR PROGRAM

Enclosed are the relative risk evaluation worksheets for the Installation Restoration (IR) sites at the Naval Education Training Center, Newport Rhode Island. The enclosures are provided for your review and comment. Comments are requested within 30 days from the receipt of this letter. If requested a conference call will be scheduled prior to submission of your comments. The Navy will revise the worksheets upon receipt of your comments and resubmit them for your final review. Subsequent to your review, the worksheets will be included in the Site Management Plan for NETC Newport.

Please contact me at (610) 595-0567 if you have any questions regarding the enclosed information.

Sincerely,

JAMES SHAFER
Remedial Project Manager
By direction of the
Commanding Officer

Copy to:
NETC/Peter Palmerino
Brown & Root/Betsy Horne
ERICD/Mary Philcox

RELATIVE RISK EVALUATION WORKSHEET

SITE (1) BACKGROUND INFORMATION

Installation/Site Name for FUDS NEWPORT RI NETC

Location (State): RI

Site (Name/RMIS ID) / Project for FUDS: SITE 00001

RMIS Site Type: LANDFILL

Point of Contact (Name/Phone): Brad Wheeler

Date Entered (Day, Month, Year): 11/17/97

Media Evaluated (GW, SW, Sediment, Soil): GW SEDEM SOIL

Phase of Exec. (SI, RI, FS, Remv, RD/RA, or equiv. RCRA Stage): CERCLA RI/FS

Agr. Status (Y/N, If yes, type of agreement e.g., FFA, Permit, Order) Yes

National Priority List (Y/N): No Site Rank: High

SITE SUMMARY

(Include only key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired.)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Site 1 is an 11 acre landfill which was operated from 1955 until the mid 1970's. The landfill received wastes generated at the base which included operational areas (machine shops) to family housing (domestic refuse) to ships homeported materials including spent acids, solvents, waste oil, PCB transform oil, and construction/domestic debris. A waste incinerator operated between 1965 and early 1970's with ash residue disposed of on-site.

Brief Description of Pathways (Groundwater, Surface Water, Sediment, Soil):

Groundwater, soil and sediments are of potential concern. Currently installation of a RCRA subtitle C cap will eliminate direct contact to soils.

Brief Description of Receptors (Human and Ecological):

Receptors include both human and ecological.

(1) Use to record information on Sites and Areas of Concern (AOC) for Relative Risk Site Evaluation. The term Site is defined as a discrete area for which suspected contamination has been verified and required a Site by definition has been, or will be, entered into RMIS. For the FUDS Program, "projects" equates to sites for current installations. An AOC is a discrete area of contamination, or suspected contamination (or RFA) phase that has not been entered into RMIS.

Ground Water

CONTAMINANT HAZARD FACTOR (1) (CHF)

Contaminant	Maximum Conc. ug/L.	Standard ug/L.	Ratio (2)
Arsenic (cancer endpoint)	311 0	4 5	69 110
Manganese and compounds	12 000 0	180 0	66 670
Calcium	162 000 0	11 000 0	14 730
Aluminum	284 000 0	37 000 0	7 680
Lead	19 8	4 0	4 950
Cobalt	737 0	180 0	4 090
Cadmium and compounds	57 1	18 0	3 170
Vanadium	432 0	260 0	1 660
Zinc	12 100 0	11 000 0	1 100
Aroclor-1254	0 76	0 73	1 040
Total:			179 230

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100): X

Moderate (If Total 2 - 100):

Minimal (If Total < 2):

MIGRATION PATHWAY FACTOR (MPF)

Evident - Analytical data or observable evidence indicates that contamination in the media is moving away from the source

Confined - Information indicates that the potential for contaminant migration from the source is limited (due to geological structures or physical controls)

(Place an "X" next to one below)

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Evident:

Potential: X

Confined:

Brief Rationale for Selection: Contaminants found in the groundwater appear to be filtered by geological conditions, however tidal flushing still appears to be a possible migration route

RECEPTOR FACTOR (RF)

Identified - There is a threatened or potentially threatened water supply downgradient of the source. The GW (cont or not) is a current drinking water source or is equiv. to (Class I or IIA aquifer)

Limited - There is no potentially threatened water supply well downgradient of the source. The groundwater is not considered a potential source of DW or is of limited beneficial use (IIIA, IIIB or perched aquifer)

(Place an "X" next to one below)

Identified:

Potential:

Limited: X

Brief Rationale for Selection: Classification of groundwater is GA-NA aquifer. It is not considered suitable as drinking water due to proximity to salt water and use as a landfill

Activity Name NEWPORT RI NETC

Site Name: SITE 00001

Groundwater Category: Med
(High, Medium, Low)

**CONTAMINANT
HAZARD
FACTOR (1)
(CHHF)**

(Place an "X" next to one below)

Significant (If Total > 100): _____

Moderate (If Total 2 - 100): X

Minimal (If Total < 2):

Total:	14.276
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**MIGRATION
PATHWAY
FACTOR
(MPF)**

(Place an "X" next to one below)

Evident: X

Potential: _____

Confined:

Brief Rationale for Selection Analytical data shows elevated levels in sediments in the bay adjacent to the site

RECEPTOR
FACTOR
(RF)

(Place an "X" next to one below)

Identified: X

Potential:

Limited:

Brief Rationale for Selection Ecological receptors have been identified

Activity Name NEWPORT RI NETC

Site Name: SITE 00001

Sediment Marine Category: High
(High, Medium, Low)

Soil

CONTAMINANT HAZARD FACTOR (1) (CHF)

Contaminant	Maximum Conc. mg/Kg	Standard mg/kg	Ratio (2)
Lead	1 980 0	400 0	4 950
Benzo[a]pyrene	27 0	6 1	4 430
Antimony and compounds	91 4	31 0	2 950
Copper and compounds	6 070 0	2 800 0	2 170
Calcium	45 500 0	23 000 0	1 980
Manganese and compounds	678 0	380 0	1 780
Chrysene	33 0	24 0	1 380
Arsenic (cancer endpoint)	24 1	22 0	1 100
Zinc	19 200 0	23 000 0	0 830
Benz[a]anthracene	43 0	61 0	0 700
Total:			26.732

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100):

Moderate (If Total 2 - 100): X

Minimal (If Total < 2):

MIGRATION PATHWAY FACTOR (MPF)

Evident - Analytical data or observable evidence indicates that contamination is present at, is moving towards, or has moved to a point of exposure

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Confined - Low possibility for contamination to be present at or migrate to a point of exposure

(Place an "X" next to one below)

Evident: _____

Potential: _____

Confined: X

Brief Rationale for Selection Due to the placement of a RCRA subtitle C Cap- there will be a low to none possibility for - exposure

RECEPTOR FACTOR (RF)

Identified - Receptors identified that have access to contaminated soil

Potential - Potential for receptors to have access to contaminated soil

Limited - Little or no potential for receptors to have access to contaminated soil

(Place an "X" next to one below)

Identified: _____

Potential: _____

Limited: X

Brief Rationale for Selection Under future conditions there will be little potential for human contact

Activity Name NEWPORT RI NETC

Site Name: SITE 00001

Soil Category: Low
(High, Medium, Low)

RELATIVE RISK EVALUATION WORKSHEET

SITE (1) BACKGROUND INFORMATION

Installation/Site Name for FUDS NEWPORT RI NETC

Location (State): RI

Site (Name/RMIS ID) / Project for FUDS: SITE 00002

RMIS Site Type: LANDFILL

Point of Contact (Name/Phone): Brad Wheeler

Date Entered (Day, Month, Year): 11/17/97

Media Evaluated (GW, SW, Sediment, Soil): GW SOIL

Phase of Exec. (SI, RI, FS, Remv, RD/RA, or equiv. RCRA Stage): RI

Agr. Status (Y/N, If yes, type of agreement e.g., FFA, Permit, Order) Yes

National Priority List (Y/N): No Site Rank: Med

SITE SUMMARY

(Include only key elements of information used to conduct the relative risk site evaluation Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Site 2 is a 10 acre landfill located adjacent to Narragansett Bay. The landfill was operated following world war II until 1955 Wastes disposed of include spent acids, paints, oils, and PCB's. The site was excessed by the Navy in 1983

Brief Description of Pathways (Groundwater, Surface Water, Sediment, Soil):

Suspected pathways include groundwater and soil

Brief Description of Receptors (Human and Ecological):

Receptors are human

(1) Use to record information on Sites and Areas of Concern (AOC) for Relative Risk Site Evaluation The term Site is defined as a discrete area for which suspected contamination has been verified and req A Site by definition has been, or will be, entered into RMIS For the FUDS Program. "projects" equates to sites for current installations An AOC is a discrete area of contamination, or suspected contaminati (or RFA) phase that has not been entered into RMIS

Ground Water

**CONTAMINANT
HAZARD
FACTOR (1)
(CHF)**

Contaminant	Maximum Conc. ug/L	Standard ug/L	Ratio (2)
Manganese and compounds	4 210 0	180 0	23 390
Antimony and compounds	118 0	15 0	7 870
Arsenic (cancer endpoint)	22 4	4 5	4 980
Aluminum	93,200 0	37 000 0	2 520
Beryllium and compounds	3 8	1 6	2 380
Chlorobenzene	79 0	39 0	2 030
Dichlorobenzene, 1,4-	83 0	47 0	1 770
Calcium	18,000 0	11 000 0	1 640
Methylnaphthalene 2-	210 0	0 0	1 170
Cobalt	192 0	180 0	1 070
Total:			54,300

(1) Evaluate for human contaminants only
 (2) Ratio = Maximum Concentration/Standard
 Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100):

Moderate (If Total 2 - 100): X

Minimal (If Total < 2):

**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident - Analytical data or observable evidence indicates that contamination in the media is moving away from the source

Confined - Information indicates that the potential for contaminant migration from the source is limited (due to geological structures or physical controls)

(Place an "X" next to one below)

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Evident: _____

Potential: X

Confined: _____

Brief Rationale for Selection: Geologic conditions provide the potential for groundwater migration

**RECEPTOR
FACTOR
(RF)**

Identified - There is a threatened or potentially threatened water supply downgradient of the source. The GW (cont or not) is a current drinking water source or is equiv to (Class I or IIA aquifer)

Limited - There is no potentially threatened water supply well downgradient of the source. The groundwater is not considered a potential source of DW or is of limited beneficial use (IIIA, IIIB or perched aquifer)

(Place an "X" next to one below)

Identified: _____

Potential: _____

Limited: X

Brief Rationale for Selection: There is no known water supply well down gradient however classification identifies the aquifer as a non drinking water aquifer (class GB)

Activity Name NEWPORT RI NETC

Site Name: SITE 00002

Groundwater Category: Low
 (High, Medium, Low)

Soil

**CONTAMINANT
HAZARD
FACTOR (1)
(CHF)**

Contaminant	Maximum Conc. mg/Kg	Standard mg/Kg	Ratio (2)
Lead	1,970.0	400.0	4.930
Arsenic (cancer)	30.1	22.0	1.370
Manganese and compounds	490.0	380.0	1.290
Aroclor-1260	8.0	0.0	1.140
Benzo[a]pyrene	5.9	6.1	0.970
Chrysene	11.0	24.0	0.460
Calcium	8,720.0	23,000.0	0.380
Antimony and compounds	10.3	31.0	0.330
Dibenz[ah]anthracene	1.6	6.1	0.260
Aluminum	12,700.0	77,000.0	0.160
Total:			12.190

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100): _____

Moderate (If Total 2 - 100): X

Minimal (If Total < 2): _____

**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident - Analytical data or observable evidence indicates that contamination is present at, is moving towards, or has moved to a point of exposure

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Confined - Low possibility for contamination to be present at or migrate to a point of exposure

(Place an "X" next to one below)

Evident: _____

Potential: X

Confined: _____

Brief Rationale for Selection: Information is not sufficient to make a determination of Evident or Confined

**RECEPTOR
FACTOR
(RF)**

Identified - Receptors identified that have access to contaminated soil

Potential - Potential for receptors to have access to contaminated soil

Limited - Little or no potential for receptors to have access to contaminated soil

(Place an "X" next to one below)

Identified: _____

Potential: X

Limited: _____

Brief Rationale for Selection: Under current conditions there is potential for receptors to have access to soils

Activity Name NEWPORT RI NETC

Site Name: SITE 00002

Soil Category: Med
(High, Medium, Low)

RELATIVE RISK EVALUATION WORKSHEET

SITE (1) BACKGROUND INFORMATION

Installation/Site Name for FUDS NEWPORT RI NETC

Location (State): RI

Site (Name/RMIS ID) / Project for FUDS: SITE 00004

RMIS Site Type: SURFACE DISPOSAL AREA

Point of Contact (Name/Phone): Brad Wheeler

Date Entered (Day, Month, Year): 11/18/97

Media Evaluated (GW, SW, Sediment, Soil): _____

Phase of Exec. (SI, RI, FS, Remv, RD/RA, or equiv. RCRA Stage): _____

Agr. Status (Y/N, If yes, type of agreement e.g., FFA, Permit, Order) Yes

National Priority List (Y/N): No

Site Rank: NE

SITE SUMMARY

(Include only key elements of information used to conduct the relative risk site evaluation Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Site 4 is a 6 acre disposal area used from 1978 to 1982 Wastes disposed of include concrete, scrap lumber, tires, wire, cable, empty paint cans and ash The site is surrounded by a chain link fence and overgrown with heavy brush, weeds and low growing vegetation

Brief Description of Pathways (Groundwater, Surface Water, Sediment, Soil):

Suspected pathways include groundwater, surface water, soils

Brief Description of Receptors (Human and Ecological):

Potential receptors include both human and ecological.

(1) Use to record information on Sites and Areas of Concern (AOC) for Relative Risk Site Evaluation The term Site is defined as a discrete area for which suspected contamination has been verified and required a Site by definition has been, or will be, entered into RMIS For the FUDS Program. "projects" equates to sites for current installations An AOC is a discrete area of contamination, or suspected contamination (or RFA) phase that has not been entered into RMIS

RELATIVE RISK EVALUATION WORKSHEET

SITE (1) BACKGROUND INFORMATION

Installation/Site Name for FUDS NEWPORT RI NETC
Location (State): RI
Site (Name/RMIS ID) / Project for FUDS: SITE 00007
RMIS Site Type: UNDERGROUND TANK FARM
Point of Contact (Name/Phone): Brad Wheeler

Date Entered (Day, Month, Year): 11/18/97
Media Evaluated (GW, SW, Sediment, Soil): GW
Phase of Exec. (SI, RI, FS, Remv, RD/RA, or equiv. RCRA Stage): _____
Agr. Status (Y/N, If yes, type of agreement e.g., FFA, Permit, Order) Yes
National Priority List (Y/N): No Site Rank: Med

SITE SUMMARY

(Include only key elements of information used to conduct the relative risk site evaluation Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Site 7 consists of six steel underground storage tanks each with a 1 1 M gallon capacity and two steel above ground tanks with a 2 3M gallon capacity. Tank Farm One was used for the storage of ballast sludge, jet engine fuel, ship fuel, motor gasoline and aviation gasoline Tank Farm One is approximately 30 acres. Data collected under the UST Program

Brief Description of Pathways (Groundwater, Surface Water, Sediment, Soil):

Pathway would be groundwater

Brief Description of Receptors (Human and Ecological):

Potential receptors are human.

(1) Use to record information on Sites and Areas of Concern (AOC) for Relative Risk Site Evaluation The term Site is defined as a discrete area for which suspected contamination has been verified and req A Site by definition has been, or will be, entered into RMIS For the FUDS Program, "projects" equates to sites for current installations An AOC is a discrete area of contamination, or suspected contaminati (or RFA) phase that has not been entered into RMIS

Ground Water

CONTAMINANT HAZARD FACTOR (1) (CHF)

Contaminant	Maximum Conc. ug/L	Standard ug/L	Ratio (2)
Benzene	57.0	39.0	1.460
Ethyl benzene	250.0	1,300.0	0.190
Methyl tertbutyl ether (MTBE)	34.0	180.0	0.190
Xylene, m-	209.0	1,400.0	0.150
Toluene	50.0	720.0	0.070
Total:			2.062

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100):

Moderate (If Total 2 - 100): X

Minimal (If Total < 2):

MIGRATION PATHWAY FACTOR (MPF)

Evident - Analytical data or observable evidence indicates that contamination in the media is moving away from the source

Confined - Information indicates that the potential for contaminant migration from the source is limited (due to geological structures or physical controls)

(Place an "X" next to one below)

Evident: X

Potential: _____

Confined: _____

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Brief Rationale for Selection: Available data shows contamination present and moving away from source but is also decreasing in concentration with time

RECEPTOR FACTOR (RF)

Identified - There is a threatened or potentially threatened water supply downgradient of the source. The GW (cont. or not) is a current drinking water source or is equiv. to (Class I or IIA aquifer)

Limited - There is no potentially threatened water supply well downgradient of the source. The groundwater is not considered a potential source of DW or is of limited beneficial use (IIIA, IIIB or perched aquifer)

(Place an "X" next to one below)

Identified: _____

Potential: _____

Limited: X

Potential - There is no potentially threatened water supply well downgradient of the source. The groundwater is potentially usable for DW, irrigation or agriculture, but not presently used (Class IIB aquifer)

Brief Rationale for Selection: Groundwater is designated as GB and is not suitable as a source of drinking water

Activity Name: NEWPORT RI NETC

Site Name: SITE 00007

Groundwater Category: Med
(High, Medium, Low)

RELATIVE RISK EVALUATION WORKSHEET

SITE (1) BACKGROUND INFORMATION

Installation/Site Name for FUDS NEWPORT RI NETC

Location (State): RI

Site (Name/RMIS ID) / Project for FUDS: SITE 00008

RMIS Site Type: SURFACE DISPOSAL AREA

Point of Contact (Name/Phone): Brad Wheeler

Date Entered (Day, Month, Year): 11/18/97

Media Evaluated (GW, SW, Sediment, Soil): _____

Phase of Exec. (SI, RI, FS, Remv, RD/RA, or equiv. RCRA Stage): _____

Agr. Status (Y/N, If yes, type of agreement e.g., FFA, Permit, Order) Yes

National Priority List (Y/N): No Site Rank: NE

SITE SUMMARY

(Include only key elements of information used to conduct the relative risk site evaluation. Attach map view of site if desired.)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Site 8 was a disposal area used for an unspecified period of time and was used for the disposal of scrap lumber, tires, wire and empty point cans. The site consists of an elevated stream embankment area and a flat storage area which is mostly grass and lightly wooded areas.

Brief Description of Pathways (Groundwater, Surface Water, Sediment, Soil):

Potential pathways include groundwater, surface water and sediments.

Brief Description of Receptors (Human and Ecological):

Potential receptors include both human and ecological.

(1) Use to record information on Sites and Areas of Concern (AOC) for Relative Risk Site Evaluation. The term Site is defined as a discrete area for which suspected contamination has been verified and required a Site by definition has been, or will be, entered into RMIS. For the FUDS Program, "projects" equates to sites for current installations. An AOC is a discrete area of contamination, or suspected contamination (or RFA) phase that has not been entered into RMIS.

RELATIVE RISK EVALUATION WORKSHEET

SITE (1) BACKGROUND INFORMATION

Installation/Site Name for FUDS NEWPORT RI NETC
Location (State): RI
Site (Name/RMIS ID) / Project for FUDS: SITE 00009
RMIS Site Type: FIRE/CRASII TRAINING AREA
Point of Contact (Name/Phone): Brad Wheeler

Date Entered (Day, Month, Year): 10/21/97
Media Evaluated (GW, SW, Sediment, Soil): GW SWII SEDII SEDEM SOIL
Phase of Exec. (SI, RI, FS, Remv, RD/RA, or equiv. RCRA Stage): CERCLA RI/FS
Agr. Status (Y/N, If yes, type of agreement e.g., FFA, Permit, Order) Yes
National Priority List (Y/N): No Site Rank: High

SITE SUMMARY

(Include only key elements of information used to conduct the relative risk site evaluation Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Site 9 was used from World War II to 1972 as a fire fighting training area where a mixture of oil and water was set on fire for fire fighting training practices Historical records show the 5.5 acre site to have had a layout of underground piping which carried the oil/water mixture to the training areas. Currently the site is entirely landscaped and used for recreational purposes

Brief Description of Pathways (Groundwater, Surface Water, Sediment, Soil):

Known pathways include groundwater, surface water, sediment and soil

Brief Description of Receptors (Human and Ecological):

Receptors include both human and ecological

(1) Use to record information on Sites and Areas of Concern (AOC) for Relative Risk Site Evaluation The term Site is defined as a discrete area for which suspected contamination has been verified and req A Site by definition has been, or will be, entered into RMIS For the FUDS Program, "projects" equates to sites for current installations An AOC is a discrete area of contamination, or suspected contaminati (or RFA) phase that has not been entered into RMIS

Ground Water

CONTAMINANT HAZARD FACTOR (1) (CHF)

Contaminant	Maximum Conc. ug/L	Standard ug/L	Ratio (2)
Lead	4,120.0	4.0	1030.000
Manganese and compounds	28,000.0	180.0	155.560
Arsenic (cancer endpoint)	130.0	4.5	28.890
Calcium	205,000.0	11,000.0	18.640
Beryllium and compounds	9.3	1.6	5.810
Aluminum	193,000.0	37,000.0	5.220
Cadmium and compounds	48.8	18.0	2.710
Antimony and compounds	37.5	15.0	2.500
Benzo[a]pyrene	2.0	0.92	2.170
Cobalt	297.0	180.0	1.650
Total:			1260.342

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100): X

Moderate (If Total 2 - 100):

Minimal (If Total < 2):

MIGRATION PATHWAY FACTOR (MPF)

Evident - Analytical data or observable evidence indicates that contamination in the media is moving away from the source

Confined - Information indicates that the potential for contaminant migration from the source is limited (due to geological structures or physical controls)

(Place an "X" next to one below)

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Evident:

Potential: X

Confined:

Brief Rationale for Selection: Analytical data shows contamination in the form of free product and metals with migration - towards the bay due to tidal flushing

RECEPTOR FACTOR (RF)

Identified - There is a threatened or potentially threatened water supply downgradient of the source. The GW (cont. or not) is a current drinking water source or is equiv. to (Class I or IIA aquifer)

Limited - There is no potentially threatened water supply well downgradient of the source. The groundwater is not considered a potential source of DW or is of limited beneficial use (IIIA, IIIB or perched aquifer)

(Place an "X" next to one below)

Identified:

Potential: X

Limited:

Brief Rationale for Selection: There is no threatened water supply well downgradient however classification of groundwater - identified as a non-attainment area but designated to be suitable for public drinking water with treatment

Activity Name: NEWPORT RI NETC

Site Name: SITE 00009

Groundwater Category: High
(High, Medium, Low)

Surface Water Human

CONTAMINANT HAZARD FACTOR (1) (CHF)

Contaminant	Maximum Conc. ug/L	Standard ug/L	Ratio (2)
Calcium	82,600.0	11,000.0	7.510
Antimony and compounds	25.8	15.0	1.720
Manganese and compounds	225.0	180.0	1.250
Lead	4.2	4.0	1.050
Arsenic (cancer endpoint)	1.1	4.5	0.240
Dieldrin	0.016	0.42	0.040
Nickel and compounds	14.9	730.0	0.020
Selenium	3.0	180.0	0.020
Barium and compounds	35.4	2,600.0	0.010
Methylnaphthalene, 2-	2.0	0.0	0.010
Total:			11.917

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100): _____

Moderate (If Total 2 - 100): X

Minimal (If Total < 2): _____

MIGRATION PATHWAY FACTOR (NPF)

Evident - Analytical data or observable evidence indicates that contamination in the media is present at, is moving toward, or has moved to a point of exposure

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Confined - Information indicates a low potential for contamination to a potential point of exposure (could be due to the presence of geological structures or physical controls)

(Place an "X" next to one below)

Evident: _____

Potential: X

Confined: _____

Brief Rationale for Selection

RECEPTOR FACTOR (RF)

Identified - Receptors identified that have access to surface water

Potential - Potential for receptors to have access to surface water

Limited - Little or no potential for receptors to have access to surface water

(Place an "X" next to one below)

Identified: _____

Potential: X

Limited: _____

Brief Rationale for Selection

Activity Name NEWPORT RI NETC

Site Name: SITE 00009

Surface Water Human Category: Med
(High, Medium, Low)

Sediment Human

CONTAMINANT HAZARD FACTOR (1) (CHF)

Contaminant	Maximum Conc. mg/Kg	Standard mg/Kg	Ratio (2)
Aluminum	51,200.0	77,000.0	0.660
Arsenic (cancer endpoint)	11.4	22.0	0.520
Aroclor-1254	0.542	1.4	0.390
Lead	123.0	400.0	0.310
Antimony and compounds	1.93	31.0	0.060
Cadmium and compounds	1.27	38.0	0.030
Copper and compounds	75.4	2,800.0	0.030
Chromium (total)	70.6	3,000.0	0.020
Mercury and compounds (inorganic)	0.443	23.0	0.020
Nickel and compounds	27.9	1,500.0	0.020
Total:			2.074

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100):

Moderate (If Total 2 - 100): X

Minimal (If Total < 2):

MIGRATION PATHWAY FACTOR (MPF)

Evident - Analytical data or observable evidence indicates that contamination in the media is present at, is moving toward, or has moved to a point of exposure

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Confined - Information indicates a low potential for contamination to a potential point of exposure (could be due to the presence of geological structures or or physical controls)

(Place an "X" next to one below)

Evident: _____

Potential: X

Confined: _____

Brief Rationale for Selection: Information not sufficient to make a determination of Evident or Confined

RECEPTOR FACTOR (RF)

Identified - Receptors identified that have access to sediment

Potential - Potential for receptors to have access to sediment

Limited - Little or no potential for receptors to have access to sediment

(Place an "X" next to one below)

Identified: _____

Potential: X

Limited: _____

Brief Rationale for Selection: Potential for receptors to have access to sediment

Activity Name: NEWPORT RI NETC

Site Name: SITE 00009

Sediment Human Category: Med
(High, Medium, Low)

Sediment Eco Marine

CONTAMINANT HAZARD FACTOR (1) (CHF)

Contaminant	Maximum Conc. mg/Kg	Standard mg/Kg	Ratio (2)
Aroclor-1254	0.542	0.0	10.840
Copper and compounds	75.4	7.0	10.770
Chromium (total)	70.6	8.0	8.820
Lead	123.0	35.0	3.510
Mercury and compounds (inorganic)	0.443	0.15	2.950
Zinc	215.0	120.0	1.790
Silver and compounds	1.16	1.0	1.160
Antimony and compounds	1.93	2.0	0.960
Nickel and compounds	27.9	30.0	0.930
Arsenic (cancer endpoint)	11.4	33.0	0.350
Total:			42.350

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100): _____

Moderate (If Total 2 - 100): X

Minimal (If Total < 2): _____

MIGRATION PATHWAY FACTOR (MPF)

Evident - Analytical data or observable evidence indicates that contamination in the media is present at, is moving toward, or has moved to a point of exposure

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Confined - Information indicates a low potential for contamination to a potential point of exposure (could be due to the presence of geological structures or or physical controls)

(Place an "X" next to one below)

Evident: _____

Potential: X

Confined: _____

Brief Rationale for Selection: Analytical data shows elevated levels in sediments in the bay adjacent to the site. However, further assessment needed to determine if receptors are at risk.

RECEPTOR FACTOR (RF)

Identified - Receptors identified that have access to sediment

Potential - Potential for receptors to have access to sediment

Limited - Little or no potential for receptors to have access to sediment

(Place an "X" next to one below)

Identified: X

Potential: _____

Limited: _____

Brief Rationale for Selection: Ecological receptors have been identified.

Activity Name NEWPORT RI NETC

Site Name: SITE 00009

Sediment Marine Category: High
(High, Medium, Low)

Soil

**CONTAMINANT
HAZARD
FACTOR (1)
(CHF)**

Contaminant	Maximum Conc. mg/kg	Standard mg/Kg	Ratio (2)
Lead	2,970 0	400 0	7 430
Manganese and compounds	697 0	380 0	1 830
Calcium	21 000 0	23 000 0	0 910
Arsenic (cancer endpoint)	10 0	22 0	0 450
Benzo[a]pyrene	2 7	6 1	0 440
Antimony and compounds	9 1	31 0	0 290
Aluminum	11 600 0	77,000 0	0 150
Nickel and compounds	221 0	1,500 0	0 150
Chrysene	2 8	24 0	0 120
Zinc	1,910 0	23 000 0	0 080
Total:			12.526

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100): _____

Moderate (If Total 2 - 100): X

Minimal (If Total < 2): _____

**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident - Analytical data or observable evidence indicates that contamination is present at, is moving towards, or has moved to a point of exposure

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Confined - Low possibility for contamination to be present at or migrate to a point of exposure

(Place an "X" next to one below)

Evident: X

Potential: _____

Confined: _____

Brief Rationale for Selection Analytical data shows contamination present in both surface and subsurface soils

**RECEPTOR
FACTOR
(RF)**

Identified - Receptors identified that have access to contaminated soil

Potential - Potential for receptors to have access to contaminated soil

Limited - Little or no potential for receptors to have access to contaminated soil

(Place an "X" next to one below)

Identified: X

Potential: _____

Limited: _____

Brief Rationale for Selection Due to use of site for recreational purposes human receptors have access to contaminated soils

Activity Name NEWPORT RI NETC

Site Name: SITE 00009

Soil Category: High
(High, Medium, Low)

RELATIVE RISK EVALUATION WORKSHEET

SITE (1) BACKGROUND INFORMATION

Installation/Site Name for FUDS NEWPORT RI NETC

Date Entered (Day, Month, Year): 11/18/97

Location (State): RI

Media Evaluated (GW, SW, Sediment, Soil): GW SOIL

Site (Name/RMIS ID) / Project for FUDS: SITE 00010

Phase of Exec. (SI, RI, FS, Remv, RD/RA, or equiv. RCRA Stage): _____

RMIS Site Type: UNDERGROUND TANK FARM

Agr. Status (Y/N, If yes, type of agreement e.g., FFA, Permit, Order) Yes

Point of Contact (Name/Phone): Brad Wheeler

National Priority List (Y/N): No Site Rank: Med

SITE SUMMARY

(Include only key elements of information used to conduct the relative risk site evaluation Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Tank Farm 2 is approximately 70 acres and contains 11 concrete underground storage tanks each with a 2 52M gallon capacity The site is surrounded with a chain-link fence The tanks have been used for storage of diesel and buck heat fuel and are currently operational .

Brief Description of Pathways (Groundwater, Surface Water, Sediment, Soil):

Potential pathways include groundwater and soil

Brief Description of Receptors (Human and Ecological):

Receptors include human receptors.

(1) Use to record information on Sites and Areas of Concern (AOC) for Relative Risk Site Evaluation The term Site is defined as a discrete area for which suspected contamination has been verified and req A Site by definition has been, or will be, entered into RMIS For the FUDS Program, "projects" equates to sites for current installations An AOC is a discrete area of contamination, or suspected contaminati (or RFA) phase that has not been entered into RMIS

Ground Water

**CONTAMINANT
HAZARD
FACTOR (1)
(CHIF)**

Contaminant	Maximum Conc. ug/L.	Standard ug/L.	Ratio (2)
Naphthalene	42.0	240.0	0.170
Benzene	4.2	39.0	0.110
Anthracene	13.0	1,800.0	0.010
Ethyl benzene	4.9	1,300.0	0.000
Xylene	1.7	1,400.0	0.000
(1) Evaluate for human contaminants only (2) Ratio = Maximum Concentration/Standard Max. Conc.			Total: 0.291

(Place an "X" next to one below)

Significant (If Total > 100):

Moderate (If Total 2 - 100):

Minimal (If Total < 2): X

**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident -	Analytical data or observable evidence indicates that contamination in the media is moving away from the source
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Confined - Information indicates that the potential for contaminant migration from the source is limited (due to geological structures or physical controls)

(Place an "X" next to one below)

Evident: _____

Potential: X

Confined: _____

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Brief Rationale for Selection Information is not sufficient to make determination

RECEPTOR
FACTOR
(RF)

Identified - There is a threatened or potentially threatened water supply downgradient of the source. The GW (cont. or not) is a current drinking water source or is equiv. to (Class I or IIA aquifer).

Limited - There is no potentially threatened water supply well downgradient of the source. The groundwater is not considered a potential source of DW or is of limited beneficial use (IIIA, IIIB or perched aquifer).

(Place an "X" next to one below)

Identified:

Potential: X

Limited:

Potential - There is no potentially threatened water supply well downgradient of the source. The groundwater is potentially usable for DW, irrigation or agriculture, but not presently used (Class IIB aquifer).

Brief Rationale for Selection GW is designated as suitable for drinking water however is not currently used

Activity Name NEWPORT RI NETC

Site Name: SITE 00010

Groundwater Category: Low
(High, Medium, Low)

Soil

**CONTAMINANT
HAZARD
FACTOR (1)
(CHF)**

Contaminant	Maximum Conc. mg/Kg	Standard mg/Kg	Ratio (2)
Naphthalene	6 000 0	800 0	7 500
Trichlorobenzene, 1 2,4-	2,900 0	620 0	4 680
Total:			12.177

(1) Evaluate for human contaminants only
 (2) Ratio = Maximum Concentration/Standard
 Note Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100): _____

Moderate (If Total 2 - 100): X

Minimal (If Total < 2): _____

**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident - Analytical data or observable evidence indicates that contamination is present at, is moving towards or has moved to a point of exposure

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Confined - Low possibility for contamination to be present at or migrate to a point of exposure

(Place an "X" next to one below)

Evident: _____

Potential: X

Confined: _____

Brief Rationale for Selection Information not sufficient to make determination

**RECEPTOR
FACTOR
(RF)**

Identified - Receptors identified that have access to contaminated soil

Potential - Potential for receptors to have access to contaminated soil

Limited - Little or no potential for receptors to have access to contaminated soil

(Place an "X" next to one below)

Identified: _____

Potential: X

Limited: _____

Brief Rationale for Selection There is a potential for receptors since tank farm is currently operational

Activity Name NEWPORT RI NETC

Site Name: SITE 00010

Soil Category: Med
 (High, Medium, Low)

RELATIVE RISK EVALUATION WORKSHEET

SITE (1) BACKGROUND INFORMATION

Installation/Site Name for FUDS NEWPORT RI NETC

Location (State): RI

Site (Name/RMIS ID) / Project for FUDS: SITE 00011

RMIS Site Type: UNDERGROUND TANK FARM

Point of Contact (Name/Phone): Brad Wheeler

Date Entered (Day, Month, Year): 11/18/97

Media Evaluated (GW, SW, Sediment, Soil): GW SOIL

Phase of Exec. (SI, RI, FS, Remv, RD/RA, or equiv. RCRA Stage): _____

Agr. Status (Y/N, If yes, type of agreement e.g., FFA, Permit, Order) Yes

National Priority List (Y/N): No Site Rank: Low

SITE SUMMARY

(Include only key elements of information used to conduct the relative risk site evaluation Attach map view of site if desired.)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Tank farm #3 is 30 acres in size and consists of 5 concrete underground storage tanks (1 55M gallon capacity) and 2 steel underground storage tanks (2 1M gallon capacity) Tanks were used to store JP-4 and JP-5 jet engine fuel

Brief Description of Pathways (Groundwater, Surface Water, Sediment, Soil):

Potential pathways include groundwater and soil

Brief Description of Receptors (Human and Ecological):

Potential receptors include human

(1) Use to record information on Sites and Areas of Concern (AOC) for Relative Risk Site Evaluation The term Site is defined as a discrete area for which suspected contamination has been verified and req A Site by definition has been, or will be, entered into RMIS For the FUDS Program, "projects" equates to sites for current installations An AOC is a discrete area of contamination, or suspected contaminati (or RFA) phase that has not been entered into RMIS

Ground Water

**CONTAMINANT
HAZARD
FACTOR (1)
(CIHF)**

Contaminant	Maximum Conc. ug/L	Standard ug/L	Ratio (2)
Naphthalene	140 0	240 0	0 580
Tetrachloroethylene (PCE)	5 4	110 0	0 050
Xylene	3 6	1 400 0	0 000
Total:			0.629

(1) Evaluate for human contaminants only
 (2) Ratio = Maximum Concentration/Standard
 Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100): _____

Moderate (If Total 2 - 100): _____

Minimal (If Total < 2): X

**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident - Analytical data or observable evidence indicates that contamination in the media is moving away from the source

Confined - Information indicates that the potential for contaminant migration from the source is limited (due to geological structures or physical controls)

(Place an "X" next to one below)

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Evident: _____

Potential: X

Confined: _____

Brief Rationale for Selection: Information is not sufficient to make a determination

**RECEPTOR
FACTOR
(RF)**

Identified - There is a threatened or potentially threatened water supply downgradient of the source. The GW (cont or not) is a current drinking water source or is equiv to (Class I or IIA aquifer)

Limited - There is no potentially threatened water supply well downgradient of the source. The groundwater is not considered a potential source of DW or is of limited beneficial use (IIIA, IIIB or perched aquifer)

(Place an "X" next to one below)

Identified: _____

Potential: X

Limited: _____

Brief Rationale for Selection: GW presumed to be GA quality and close location of public ground water supply wells is cross gradient of site

Activity Name NEWPORT RI NETC

Site Name: SITE 00011

Groundwater Category: Low
 (High, Medium, Low)

Soit

CONTAMINANT HAZARD FACTOR (1) (CHF)	HAZARD FACTOR (2) (HF)	HAZARD FACTOR (3) (HF)	HAZARD FACTOR (4) (HF)	HAZARD FACTOR (5) (HF)	HAZARD FACTOR (6) (HF)	HAZARD FACTOR (7) (HF)	HAZARD FACTOR (8) (HF)	HAZARD FACTOR (9) (HF)	HAZARD FACTOR (10) (HF)	HAZARD FACTOR (11) (HF)	HAZARD FACTOR (12) (HF)	HAZARD FACTOR (13) (HF)	HAZARD FACTOR (14) (HF)	HAZARD FACTOR (15) (HF)	HAZARD FACTOR (16) (HF)	HAZARD FACTOR (17) (HF)	HAZARD FACTOR (18) (HF)	HAZARD FACTOR (19) (HF)	HAZARD FACTOR (20) (HF)	HAZARD FACTOR (21) (HF)	HAZARD FACTOR (22) (HF)	HAZARD FACTOR (23) (HF)	HAZARD FACTOR (24) (HF)	HAZARD FACTOR (25) (HF)	HAZARD FACTOR (26) (HF)	HAZARD FACTOR (27) (HF)	HAZARD FACTOR (28) (HF)	HAZARD FACTOR (29) (HF)	HAZARD FACTOR (30) (HF)	HAZARD FACTOR (31) (HF)	HAZARD FACTOR (32) (HF)	HAZARD FACTOR (33) (HF)	HAZARD FACTOR (34) (HF)	HAZARD FACTOR (35) (HF)	HAZARD FACTOR (36) (HF)	HAZARD FACTOR (37) (HF)	HAZARD FACTOR (38) (HF)	HAZARD FACTOR (39) (HF)	HAZARD FACTOR (40) (HF)	HAZARD FACTOR (41) (HF)	HAZARD FACTOR (42) (HF)	HAZARD FACTOR (43) (HF)	HAZARD FACTOR (44) (HF)	HAZARD FACTOR (45) (HF)	HAZARD FACTOR (46) (HF)	HAZARD FACTOR (47) (HF)	HAZARD FACTOR (48) (HF)	HAZARD FACTOR (49) (HF)	HAZARD FACTOR (50) (HF)	HAZARD FACTOR (51) (HF)	HAZARD FACTOR (52) (HF)	HAZARD FACTOR (53) (HF)	HAZARD FACTOR (54) (HF)	HAZARD FACTOR (55) (HF)	HAZARD FACTOR (56) (HF)	HAZARD FACTOR (57) (HF)	HAZARD FACTOR (58) (HF)	HAZARD FACTOR (59) (HF)	HAZARD FACTOR (60) (HF)	HAZARD FACTOR (61) (HF)	HAZARD FACTOR (62) (HF)	HAZARD FACTOR (63) (HF)	HAZARD FACTOR (64) (HF)	HAZARD FACTOR (65) (HF)	HAZARD FACTOR (66) (HF)	HAZARD FACTOR (67) (HF)	HAZARD FACTOR (68) (HF)	HAZARD FACTOR (69) (HF)	HAZARD FACTOR (70) (HF)	HAZARD FACTOR (71) (HF)	HAZARD FACTOR (72) (HF)	HAZARD FACTOR (73) (HF)	HAZARD FACTOR (74) (HF)	HAZARD FACTOR (75) (HF)	HAZARD FACTOR (76) (HF)	HAZARD FACTOR (77) (HF)	HAZARD FACTOR (78) (HF)	HAZARD FACTOR (79) (HF)	HAZARD FACTOR (80) (HF)	HAZARD FACTOR (81) (HF)	HAZARD FACTOR (82) (HF)	HAZARD FACTOR (83) (HF)	HAZARD FACTOR (84) (HF)	HAZARD FACTOR (85) (HF)	HAZARD FACTOR (86) (HF)	HAZARD FACTOR (87) (HF)	HAZARD FACTOR (88) (HF)	HAZARD FACTOR (89) (HF)	HAZARD FACTOR (90) (HF)	HAZARD FACTOR (91) (HF)	HAZARD FACTOR (92) (HF)	HAZARD FACTOR (93) (HF)	HAZARD FACTOR (94) (HF)	HAZARD FACTOR (95) (HF)	HAZARD FACTOR (96) (HF)	HAZARD FACTOR (97) (HF)	HAZARD FACTOR (98) (HF)	HAZARD FACTOR (99) (HF)	HAZARD FACTOR (100) (HF)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100

Contaminant	Maximum Conc. mg/Kg	Standard mg/Kg	Ratio (2)
Naphthalene	77.0	800.0	0.100
Ethyl benzene	5.3	690.0	0.010
Xylene (mixed)	7.2	990.0	0.010
(1) Evaluate for human contaminants only (2) Ratio = Maximum Concentration/Standard Note: Only for human contaminants			Total: 0.116

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note Only top ten contaminants are displayed

Total:

0.116

(Place an "X" next to one below)

Significant (If Total > 100):

Moderate (If Total 2 - 100):

Minimal (If Total < 2): X

**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident -

Analytical data or observable evidence indicates that contamination is present at, is moving towards or has moved to a point of exposure

Confined - Low possibility for contamination to be present at or migrate to a point of exposure

(Place an "X" next to one below)

Evident:

Potential:

Confined:

Potential -

Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Brief Rationale for Selection Information is not sufficient to make determination

RECEPTOR
FACTOR
(RF)

Identified -

Receptors identified that have access to contaminated soil

Limited - Little or no potential for receptors to have access to contaminated soil.

(Place an "X" next to one below)

Identified:

Potential:

Limited:

Potential -

Potential for receptors to have access to contaminated soil

Brief Rationale for Selection Potential for receptors to have access exists since tank farm is operational

Activity Name NEWPORT RI NETC

Site Name: SITE 00011

Soil Category: Low
(High, Medium, Low)

RELATIVE RISK EVALUATION WORKSHEET

SITE (1) BACKGROUND INFORMATION

Installation/Site Name for FUDS NEWPORT RI NETC

Location (State): RI

Site (Name/RMIS ID) / Project for FUDS: SITE 00012

RMIS Site Type: UNDERGROUND TANK FARM

Point of Contact (Name/Phone): Brad Wheeler

Date Entered (Day, Month, Year): 11/26/97

Media Evaluated (GW, SW, Sediment, Soil): GW SWII SEDEM SOIL

Phase of Exec. (SI, RI, FS, Remv, RD/RA, or equiv. RCRA Stage): _____

Agr. Status (Y/N, If yes, type of agreement e.g., FFA, Permit, Order) Yes

National Priority List (Y/N): No Site Rank: High

SITE SUMMARY

(Include only key elements of information used to conduct the relative risk site evaluation Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Site 12 is an 80 acre tank farm which consists of 12 underground storage tanks each with a 2.5M gallon capacity Diesel and fuel oil were historically stored at the site A brook crosses the western portion of the site and discharges to the bay

Brief Description of Pathways (Groundwater, Surface Water, Sediment, Soil):

Potential pathways consist of groundwater, sediment and soil

Brief Description of Receptors (Human and Ecological):

Potential receptors include both human and ecological

(1) Use to record information on Sites and Areas of Concern (AOC) for Relative Risk Site Evaluation The term Site is defined as a discrete area for which suspected contamination has been verified and required a Site by definition has been, or will be, entered into RMIS For the FUDS Program, "projects" equates to sites for current installations. An AOC is a discrete area of contamination, or suspected contamination (or RFA) phase that has not been entered into RMIS.

Ground Water

CONTAMINANT HAZARD FACTOR (1) (CHF)

Contaminant	Maximum Conc. ug/L	Standard ug/L	Ratio (2)
Arsenic (cancer endpoint)	448 0	4 5	99 560
Manganese and compounds	9,740 0	180 0	54 110
Lead	156 0	4 0	39 000
Calcium	86 600 0	11,000 0	7 870
Aluminum	251 000 0	37 000 0	6 780
Beryllium and compounds	8 5	1 6	5 310
Cobalt	669 0	180 0	3 720
Chromium (total)	391 0	180 0	2 170
Nickel and compounds	749 0	730 0	1 030
Vanadium	168 0	260 0	0 650
Total:			221.536

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100): X

Moderate (If Total 2 - 100):

Minimal (If Total < 2):

MIGRATION PATHWAY FACTOR (MPF)

Evident - Analytical data or observable evidence indicates that contamination in the media is moving away from the source

Confined - Information indicates that the potential for contaminant migration from the source is limited (due to geological structures or physical controls)

(Place an "X" next to one below)

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Evident:

Potential: X

Confined:

Brief Rationale for Selection Information is not sufficient to make a determination of evident or confined

RECEPTOR FACTOR (RF)

Identified - There is a threatened or potentially threatened water supply downgradient of the source The GW (cont or not) is a current drinking water source or is equiv to (Class I or IIA aquifer)

Limited - There is no potentially threatened water supply well downgradient of the source The groundwater is not considered a potential source of DW or is of limited beneficial use (IIIA, IIIB or perched aquifer)

(Place an "X" next to one below)

Identified:

Potential: X

Limited:

Brief Rationale for Selection There is no potentially threatened water supply well down gradient however classification of groundwater identifies as non-attainment area but suitable for drinking water

Activity Name NEWPORT RI NETC

Site Name: SITE 00012

Groundwater Category: High
(High, Medium, Low)

Surface Water Human

CONTAMINANT HAZARD FACTOR (1) (CHF)

Contaminant	Maximum Conc. ug/L	Standard ug/L	Ratio (2)
Manganese and compounds	1,930 0	180 0	10 720
Calcium	20,300 0	11 000 0	1 850
Carbon disulfide	26 0	21 0	1 240
Lead	3 8	4 0	0 950
Cadmium and compounds	3 3	18 0	0 180
Carbon tetrachloride	3 0	17 0	0 180
Zinc	1 190 0	11 000 0	0 110
Chromium (total)	4 0	180 0	0 020
Vanadium	5 0	260 0	0 020
Selenium	3 1	180 0	0 020
Total:			15.290

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100):

Moderate (If Total 2 - 100): X

Minimal (If Total < 2):

MIGRATION PATHWAY FACTOR (MPF)

Evident - Analytical data or observable evidence indicates that contamination in the media is present at, is moving toward, or has moved to a point of exposure

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Confined - Information indicates a low potential for contamination to a potential point of exposure (could be due to the presence of geological structures or physical controls)

(Place an "X" next to one below)

Evident: _____

Potential: X

Confined: _____

Brief Rationale for Selection: Insufficient data to determine an Evident or Confined pathway

RECEPTOR FACTOR (RF)

Identified - Receptors identified that have access to surface water

Potential - Potential for receptors to have access to surface water

Limited - Little or no potential for receptors to have access to surface water

(Place an "X" next to one below)

Identified: _____

Potential: X

Limited: _____

Brief Rationale for Selection: Potential for receptors to have access to contaminants in the surface water

Activity Name NEWPORT RI NETC

Site Name: SITE 00012

Surface Water Human Category: Med
(High, Medium, Low)

Sediment Eco Marine

CONTAMINANT
HAZARD
FACTOR (1)
(CHF)

Contaminant	Maximum Conc. mg/Kg	Standard mg/Kg	Ratio (2)
Calcium	791.0	120.0	6.590
Chromium (total)	25.9	8.0	3.240
Copper and compounds	17.8	7.0	2.540
Zinc	82.0	120.0	0.680
Arsenic (cancer endpoint)	21.1	33.0	0.640
Lead	12.1	35.0	0.350
Cobalt	25.0	80.0	0.310
Cadmium and compounds	0.78	5.0	0.160
Total:			14.509

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100):

Moderate (If Total 2 - 100): X

Minimal (If Total < 2):

MIGRATION
PATHWAY
FACTOR
(MPF)

Evident - Analytical data or observable evidence indicates that contamination in the media is present at, is moving toward, or has moved to a point of exposure

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Confined - Information indicates a low potential for contamination to a potential point of exposure (could be due to the presence of geological structures or or physical controls)

(Place an "X" next to one below)

Evident: _____

Potential: X

Confined: _____

Brief Rationale for Selection: Limited analytical data indicates possibility for contamination to be present in sediments and migrating towards the bay

RECEPTOR
FACTOR
(RF)

Identified - Receptors identified that have access to sediment

Potential - Potential for receptors to have access to sediment

Limited - Little or no potential for receptors to have access to sediment

(Place an "X" next to one below)

Identified: _____

Potential: X

Limited: _____

Brief Rationale for Selection: Potential receptors present due to proximity to the bay

Activity Name: NEWPORT RI NETC

Site Name: SITE 00012

Sediment Marine Category: Med
(High, Medium, Low)

Soil

**CONTAMINANT
HAZARD
FACTOR (1)
(CHF)**

Contaminant	Maximum Conc. mg/Kg	Standard mg/Kg	Ratio (2)
Manganese and compounds	471.0	380.0	1.240
Arsenic (cancer endpoint)	8.5	22.0	0.390
Lead	67.9	400.0	0.170
Aluminum	9,530.0	77,000.0	0.120
Cobalt	13.9	380.0	0.040
Vanadium	18.1	540.0	0.030
Calcium	741.0	23,000.0	0.030
Benzo[a]pyrene	0.11	6.1	0.020
Nickel and compounds	18.7	1,500.0	0.010
Copper and compounds	25.8	2,800.0	0.010
Total:			2.083

(1) Evaluate for human contaminants only
 (2) Ratio = Maximum Concentration/Standard
 Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100):

Moderate (If Total 2 - 100): X

Minimal (If Total < 2):

**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident - Analytical data or observable evidence indicates that contamination is present at, is moving towards, or has moved to a point of exposure

Confined - Low possibility for contamination to be present at or migrate to a point of exposure

(Place an "X" next to one below)

Evident:

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Potential: X

Confined:

Brief Rationale for Selection: Information not sufficient to make a determination

**RECEPTOR
FACTOR
(RF)**

Identified - Receptors identified that have access to contaminated soil

Limited - Little or no potential for receptors to have access to contaminated soil

(Place an "X" next to one below)

Identified:

Potential - Potential for receptors to have access to contaminated soil

Potential: X

Limited:

Brief Rationale for Selection: Potential for human receptors if future use scenario assumes industrial/residential

Activity Name NEWPORT RI NETC

Site Name: SITE 00012

Soil Category: Med
 (High, Medium, Low)

RELATIVE RISK EVALUATION WORKSHEET

SITE (1) BACKGROUND INFORMATION

Installation/Site Name for FUDS NEWPORT RI NETC

Location (State): RI

Site (Name/RMIS ID) / Project for FUDS: SITE 00013

RMIS Site Type: UNDERGROUND TANK FARM

Point of Contact (Name/Phone): Brad Wheeler

Date Entered (Day, Month, Year): 11/25/97

Media Evaluated (GW, SW, Sediment, Soil): GW SOIL

Phase of Exec. (SI, RI, FS, Remv, RD/RA, or equiv. RCRA Stage): CERCLA RI/FS

Agr. Status (Y/N, If yes, type of agreement e.g., FFA, Permit, Order) Yes

National Priority List (Y/N): No Site Rank: Med

SITE SUMMARY

(Include only key elements of information used to conduct the relative risk site evaluation Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Site 13 is a 73 acre tank farm which consists of 11 underground storage tanks each with a 2.5M gallon capacity The tank farm was operational from World War II until the mid 1970's and was used to store diesel and fuel oil Soil samples were taken from unfiltered samples and turbidity was high from the collected sample

Brief Description of Pathways (Groundwater, Surface Water, Sediment, Soil):

Potential pathways consist of groundwater and soil

Brief Description of Receptors (Human and Ecological):

Potential receptors include human

(1) Use to record information on Sites and Areas of Concern (AOC) for Relative Risk Site Evaluation The term Site is defined as a discrete area for which suspected contamination has been verified and req A Site by definition has been, or will be, entered into RMIS For the FUDS Program. "projects" equates to sites for current installations An AOC is a discrete area of contamination, or suspected contaminati (or RFA) phase that has not been entered into RMIS

Ground Water

**CONTAMINANT
HAZARD
FACTOR (1)
(CHF)**

Contaminant	Maximum Conc. ug/L	Standard ug/L	Ratio (2)
Arsenic (cancer)	95.3	4.5	21.180
Chromium VI and compounds	3,760.0	180.0	20.890
Antimony and compounds	30.9	15.0	2.060
Total:			44.099

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only ten top contaminants are displayed.

(Place an "X" next to one below)

Significant (If Total > 100):

Moderate (If Total 2 - 100):

Minimal (If Total < 2):

**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident -

Analytical data or observable evidence indicates that contamination in the media is moving away from the source

Confined - Information indicates that the potential for contaminant migration from the source is limited (due to geological structures or physical controls)

(Place an "X" next to one below)

Potential -

Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Evident:

Potential:

Confined:

Brief Rationale for Selection	Information is not sufficient to make a determination of Evident Confined
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RECEPTOR
FACTOR
(RF)

Identified -

There is a threatened or potentially threatened water supply downgradient of the source. The GW (cont or not) is a current drinking water source or is equiv to (Class I or IIA aquifer)

Limited - There is no potentially threatened water supply well downgradient of the source. The groundwater is not considered a potential source of DW or is of limited beneficial use (IIIA, IIIB or perched aquifer).

(Place an "X" next to one below)

Identified:

Potential:

Limited:

Potential -

There is no potentially threatened water supply well downgradient of the source. The groundwater is potentially usable for DW, irrigation or agriculture, but not presently used (Class IIB aquifer).

Brief Rationale for Selection There is not threatened water supply well down gradient of the source and the groundwater is potentially usable for drinking water

Activity Name NEWPORT RI NETC

Site Name: SITE 00013

Groundwater Category: Med
(High, Medium, Low)

Soil

**CONTAMINANT
HAZARD
FACTOR (1)
(CHF)**

Contaminant	Maximum Conc. mg/Kg	Standard mg/Kg	Ratio (2)
Lead	205 0	400 0	0 510
Arsenic (cancer endpoint)	10 1	22 0	0 460
Antimony and compounds	5 4	31 0	0 170
Aluminum	9 550 0	77 000 0	0 120
Cobalt	15 1	380 0	0 040
Calcium	854 0	23,000 0	0 040
Benzo[a]pyrene	0 14	6 1	0 020
Nickel and compounds	21 0	1,500 0	0 010
Mercury and compounds (inorganic)	0 32	23 0	0 010
Copper and compounds	24 3	2,800 0	0 010
Total:			1.400

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100): _____

Moderate (If Total 2 - 100): _____

Minimal (If Total < 2): X

**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident - Analytical data or observable evidence indicates that contamination is present at is moving towards, or has moved to a point of exposure

Confined - Low possibility for contamination to be present at or migrate to a point of exposure

(Place an "X" next to one below)

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Evident: _____

Potential: X

Confined: _____

Brief Rationale for Selection Information not sufficient to make a determination of evident or confined

**RECEPTOR
FACTOR
(RF)**

Identified - Receptors identified that have access to contaminated soil

Limited - Little or no potential for receptors to have access to contaminated soil

(Place an "X" next to one below)

Potential - Potential for receptors to have access to contaminated soil

Identified: _____

Potential: X

Limited: _____

Brief Rationale for Selection Potential for human receptors if future use scenario assumes industrial/residential

Activity Name NEWPORT RINETC

Site Name: SITE 00013

Soil Category: Low
(High, Medium, Low)

RELATIVE RISK EVALUATION WORKSHEET

SITE (I) BACKGROUND INFORMATION

Installation/Site Name for FUDS NEWPORT RI NETC
Location (State): RI
Site (Name/RMIS ID) / Project for FUDS: SITE 00017
RMIS Site Type: PLATING SHOP
Point of Contact (Name/Phone): Brad Wheeler

Date Entered (Day, Month, Year): 11/26/97
Media Evaluated (GW, SW, Sediment, Soil): GW SEDEM
Phase of Exec. (SI, RI, FS, Rcmv, RD/RA, or equiv. RCRA Stage): _____
Agr. Status (Y/N, If yes, type of agreement e.g., FFA, Permit, Order) Yes
National Priority List (Y/N): No Site Rank: Low

SITE SUMMARY

(Include only key elements of information used to conduct the relative risk site evaluation Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Site 17 is a 4,275 SQ FT electroplating shop located on Gould Island. The Plating Shop was used during the 1940's for torpedo overhauls. The shop included numerous metal vats, 3 trench drains and discrete floor drains. Disposal location of wastes are unknown. However, wastewater discharges were to either a septic system or off-shore outfall pipes. Sediment data is taken from Loureido Engineering Associates of Avon, Ct. and is dated 5/15/86. Cyanide in the sediment media which is above background levels was not evaluated because there is not a value contained in the Lookup Tables at this time.

Brief Description of Pathways (Groundwater, Surface Water, Sediment, Soil):

Potential pathways are sediments.

Brief Description of Receptors (Human and Ecological):

Potential receptor is ecological.

(1) Use to record information on Sites and Areas of Concern (AOC) for Relative Risk Site Evaluation. The term Site is defined as a discrete area for which suspected contamination has been verified and required a Site by definition has been, or will be, entered into RMIS. For the FUDS Program, "projects" equates to sites for current installations. An AOC is a discrete area of contamination, or suspected contamination (or RFA) phase that has not been entered into RMIS.

Ground Water

CONTAMINANT
HAZARD
FACTOR (1)
(CHF)

Contaminant	Maximum Conc. ug/L	Standard ug/L	Ratio (2)
Trichloroethylene (TCE)	90	1600	0.060
Total:			0.060

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100): _____

Moderate (If Total 2 - 100): _____

Minimal (If Total < 2): X

MIGRATION
PATHWAY
FACTOR
(MPF)

Evident - Analytical data or observable evidence indicates that contamination in the media is moving away from the source

Confined - Information indicates that the potential for contaminant migration from the source is limited (due to geological structures or physical controls)

(Place an "X" next to one below)

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Evident: _____

Potential: _____

Confined: X

Brief Rationale for Selection: Ground aquifer is classified as a GB class aquifer and is not used for drinking water

RECEPTOR
FACTOR
(RF)

Identified - There is a threatened or potentially threatened water supply downgradient of the source. The GW (cont or not) is a current drinking water source or is equiv. to (Class I or IIA aquifer)

Limited - There is no potentially threatened water supply well downgradient of the source. The groundwater is not considered a potential source of DW or is of limited beneficial use (IIIA, IIIB or perched aquifer)

(Place an "X" next to one below)

Identified: _____

Potential: _____

Limited: X

Brief Rationale for Selection: There is not a receptor due to aquifer classification

Activity Name: NEWPORT RI NETC

Site Name: SITE 00017

Groundwater Category: Low
(High, Medium, Low)

Sediment Eco Marine

CONTAMINANT HAZARD FACTOR (1) (CHF)

Contaminant	Maximum Conc. mg/kg	Standard mg/Kg	Ratio (2)
Copper and compounds	7.7	7.0	1.100
Cyanide (free)	0.121	0.0	0.000
Total:			1.100

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note: Only top ten contaminants are displayed

(Place an "X" next to one below)

Significant (If Total > 100): _____

Moderate (If Total 2 - 100): _____

Minimal (If Total < 2): X

MIGRATION PATHWAY FACTOR (MPF)

Evident - Analytical data or observable evidence indicates that contamination in the media is present at, is moving toward, or has moved to a point of exposure

Potential - Possibility for contamination to be present at or migrate to a point of exposure or information is not sufficient to make a determination of Evident or Confined

Confined - Information indicates a low potential for contamination to a potential point of exposure (could be due to the presence of geological structures or or physical controls)

(Place an "X" next to one below)

Evident: _____

Potential: X

Confined: _____

Brief Rationale for Selection: Information is not sufficient to make a determination of Evident or Confined

RECEPTOR FACTOR (RF)

Identified - Receptors identified that have access to sediment

Potential - Potential for receptors to have access to sediment

Limited - Little or no potential for receptors to have access to sediment

(Place an "X" next to one below)

Identified: _____

Potential: X

Limited: _____

Brief Rationale for Selection: There is a potential for receptors to have access to the sediment to which contamination has moved or can move

Activity Name: NEWPORT RI NETC

Site Name: SITE 00017

Sediment Marine Category: Low
(High, Medium, Low)

RELATIVE RISK EVALUATION WORKSHEET

SITE (1) BACKGROUND INFORMATION

Installation/Site Name for FUDS NEWPORT RI NETC

Location (State): RI

Site (Name/RMIS ID) / Project for FUDS: SITE 00019

RMIS Site Type: MAINTENANCE YARD

Point of Contact (Name/Phone): Brad Wheeler

Date Entered (Day, Month, Year): 11/26/97

Media Evaluated (GW, SW, Sediment, Soil): GW SEDEM SOIL

Phase of Exec. (SI, RI, FS, Remv, RD/RA, or equiv. RCRA Stage): CERCLA RI/FS

Agr. Status (Y/N, If yes, type of agreement e.g., FFA, Permit, Order) Yes

National Priority List (Y/N): No Site Rank: High

SITE SUMMARY

(Include only key elements of information used to conduct the relative risk site evaluation Attach map view of site if desired)

Brief Site Description (Include site type, materials disposed of, dates of operation, and other relevant information):

Site 19 was leased from the Navy for a shipbuilding facility The facility functioned as a heavily industrialized repair, maintenance and construction facility for private and military ships from 1979 to 1992 Large quantities of lubricating oils, paints and solvents were used at the facility and were probably released into the soils and adjacent bay due to poor waste management handling practices Derecktor filed for bankruptcy and abandoned the site in 1992

Brief Description of Pathways (Groundwater, Surface Water, Sediment, Soil):

Suspected pathways include sediments, surface water and soil

Brief Description of Receptors (Human and Ecological):

Potential receptors include ecological and human (ingestion of shellfish)

(1) Use to record information on Sites and Areas of Concern (AOC) for Relative Risk Site Evaluation The term Site is defined as a discrete area for which suspected contamination has been verified and req A Site by definition has been, or will be, entered into RMIS For the FUDS Program, "projects" equates to sites for current installations An AOC is a discrete area of contamination, or suspected contaminati (or RFA) phase that has not been entered into RMIS.

**CONTAMINANT
HAZARD
FACTOR (1)
(CHF)**

(Place an "X" next to one below)

Significant (If Total > 100):

Moderate (If Total 2 - 100):

Minimal (If Total < 2):

Total:	63.533
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**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident - Analytical data or observable evidence indicates that contamination in the media is moving away from the source

Confined - Information indicates that the potential for contaminant migration from the source is limited (due to geological structures or physical controls)

(Place an "X" next to one below)

Potential - Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Evident:

Potential: X

Confined:

Brief Rationale for Selection Potential exist for migration however due to tidal wave influences

RECEPTOR
FACTOR
(RF)

Identified - There is a threatened or potentially threatened water supply downgradient of the source. The GW (cont or not) is a current drinking water source or is equiv. to (Class I or IIA aquifer).

Limited - There is no potentially threatened water supply well downgradient of the source. The groundwater is not considered a potential source of DW or is of limited beneficial use (IIIA, IIIB or perched aquifer).

(Place an "X" next to one below)

Identified:

Potential:

Limited: X

Potential - There is no potentially threatened water supply well downgradient of the source. The groundwater is potentially usable for DW, irrigation or agriculture, but not presently used (Class IIB aquifer).

Brief Rationale for Selection The site is within an area of current groundwater designation of GB

Activity Name NEWPORT RI NETC

Site Name: SITE 00019

Groundwater Category: Low
(High, Medium, Low)

Sediment Eco Marine

CONTAMINANT
HAZARD
FACTOR (1)
(CHF)

Contaminant	Maximum Conc mg/Kg	Standard mg/Kg	.Ratio (2)
PCBs	27.5	0.05	550.000
Mercury	1.08	0.15	7.200
Lead	192.6	35.0	5.500
(1) Evaluate for human contaminants only		Total:	562.700
(2) Ratio = Maximum Concentration/Standard			
Note: Only top ten contaminants are evaluated.			

(Place an "X" next to one below)

Significant (If Total > 100): X

Moderate (If Total 2 - 100):

Minimal (If Total < 2):

(1) Evaluate for human contaminants only
(2) Ratio = Maximum Concentration/Standard
Note Only top ten contaminants are displayed

Total:	562 700
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562 700

**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident -

Analytical data or observable evidence indicates that contamination in the media is present at, is moving toward, or has moved to a point of exposure

Confined - Information indicates a low potential for contamination to a potential point of exposure (could be due to the presence of geological structures or or physical controls)

(Place an "X" next to one below)

Evident: X

Potential -

Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Potential:

Confined:

Brief Rationale for Selection Analytical data shows elevated levels of metals in sediments adjacent to the site

RECEPTOR
FACTOR
(RF)

Identified +

Receptors identified that have access to sediment

Limited - Little or no potential for receptors to have access to sediment

(Place an "X" next to one below)

Identified: X

Potential -

Potential for receptors to have access to sediment

Potential:

Limited:

Brief Rationale for Selection Ecological and human receptors have been identified

Activity Name NEWPORT RI NETC

Site Name: SITE 00019

Sediment Marine Category: High
(High, Medium, Low)

Soil[illegible]

Contaminant	Maximum Conc. mg/Kg	Standard mg/Kg	Ratio (2)
Benzo[a]pyrene	3,900.0	6.1	639.340
PCB 1016	65.8	4.9	13.430
Arsenic (noncancer)	24.0	22.0	1.090
(1) Evaluate for human contaminants only (2) Ratio = Maximum Concentration/Standard Note: Only top ten contaminants are displayed			Total: 653.860

(Place an "X" next to one below)

Significant (If Total > 100): X

Moderate (If Total 2 - 100):

Minimal (If Total < 2):

**MIGRATION
PATHWAY
FACTOR
(MPF)**

Evident -

Analytical data or observable evidence indicates that contamination is present at, is moving towards, or has moved to a point of exposure

Confined - Low possibility for contamination to be present at or migrate to a point of exposure

(Place an "X" next to one below)

Evident: X

Potential -

Possibility for contamination to be present at or migrate to a point of exposure, or information is not sufficient to make a determination of Evident or Confined

Potential: _____

Confined: _____

Brief Rationale for Selection Analytical data shows contamination present in both surface and sub surface soils,

RECEPTOR
FACTOR
(RF)

Identified -

Receptors identified that have access to contaminated soil

Limited - Little or no potential for receptors to have access to contaminated soil

(Place an "X" next to one below)

Identified: X

Potential -

Potential for receptors to have access to contaminated soil

Potential: _____

Limited: _____

Brief Rationale for Selection of soils Due to use at site for industrial purposes Human receptors have exposure to contaminated -

Activity Name NEWPORT RI NETC

Site Name: SITE 00019

Soil Category: High
(High, Medium, Low)